(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2021

(21) Application No.202111055633 A
(43) Publication Date : 10/12/2021

(54) Title of the invention : HAIR GROWTH PROMOTION STUDIES OF PETROLEUM ETHER EXTRACT OF ABRUS PRECATORIOUS

(51) International classification	:A61Q0007000000, A61K0008630000, A61K0031580000, A61K0031568000, C07J0073000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Dr. Sukirti Upadhyay
Address of Applicant :School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh - 244102 ---------- ----------
2)Dr. Prashant Upadhyay
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Sukirti Upadhyay
Address of Applicant :School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh - 244102 ---------- ----------
2)Dr. Prashant Upadhyay
Address of Applicant :School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh - 244102 ---------- ----------

(57) Abstract :
The present invention relates to the study of petroleum ether and ethanolic extracts of A. precatorius seeds are evaluated for reversal of androgen (testosterone by i.m route) induced alopecia in male albino wistar rats and compared to topical administration of standard antiandrogenic drug finasteride for 21 days. The results were reflected from visual observation and histological study of several skin sections via various parameters as anagen to telogen ratio and follicle density/mm area of skin surface. To investigate the mechanism of observed activity, in vitro experiments were performed. Inhibition of 5a- reductase activity by extracts and finasteride suggest that they reversed androgen induced alopecia by inhibiting conversion of testosterone to dihydrotestosterone (potent androgen responsible for androgenic alopecia). So it may be concluded that petroleum ether and ethanolic extract of A. precatorius seed posses anti androgenic alopecia activity due to inhibition of 5a-reductase enzyme.

No. of Pages : 12 No. of Claims : 4